HVAC GENERAL NOTES

- 1. REFER TO ALL OTHER DRAWINGS AND SPECIFICATIONS, AND BASE BUILDING DRAWINGS & SPECIFICATIONS AND BE RESPONSIBLE FOR ALL APPLICABLE PROVISIONS THEREIN.
- 2. FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY APPLIANCES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND NECESSARY FOR ITS PROPER OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL.
- 3. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, AND NFPA STANDARD 90A.
- 4. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY FITTING AND DETAIL. INSTALL DUCTS, EQUIPMENT AND CONTROLS IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH GOOD PRACTICE FOR A COMPLETE WORKABLE INSTALLATION. AVOID CONFLICT WITH OTHER WORK. MAKE ADEQUATE PROVISIONS FOR PREVENTING NOISE AND VIBRATION. ARRANGE EQUIPMENT IN THE AVAILABLE SPACE IN A MANNER TO MAKE ALL WORKING PARTS ACCESSIBLE FOR MAINTENANCE AND SERVICE.
- 5. PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE.
- 6. EQUIPMENT AND MATERIALS SHALL BE NEW, UNLESS OTHERWISE SPECIFIED.
- 7. EXACT LOCATION OF ALL SUPPLY DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST REGISTERS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
- B. ELECTRICAL DISCONNECTS AND/OR BREAKERS, POWER WIRING THRU MOTOR CONTROL DEVICES TO ALL MOTORS OR TO JUNCTION BOXES OF FACTORY WIRED EQUIPMENT ARE PROVIDED UNDER THE ELECTRICAL DIVISION OF WORK. MECHANICAL WORK SHALL INCLUDE CONTROL AND INTERLOCK WIRING REQUIRED FOR PROPER OPERATION OF THE SYSTEM, AND SHALL INCLUDE FURNISHING OF MAGNETIC STARTERS OR CONTACTORS WHERE REQUIRED.
- 9. COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT BEFORE ORDERING.
- 10. PROVIDE U.L. LISTED HEAVY GLASS FIBER FABRIC DUCT CONNECTOR AT FAN CONNECTORS; FABRIC CONNECTORS SHALL BE AT LEAST 4" LONG AND HAVE METAL COLLAR AT EACH END; ALLOW AT LEAST ONE INCH SLACK TO ELIMINATE VIBRATION TRANSMISSION.
- 11. PORTIONS OF DUCTWORK VISIBLE THROUGH SUPPLY AND RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK.
- 12. LOCATIONS SHOWN FOR EQUIPMENT ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL COORDINATE WITH THE FIELD CONDITIONS FOR THE EXACT LOCATION AND MODIFY DUCT SYSTEM ACCORDINGLY.
- 13. CONTRACTOR SHALL FIELD VERIFY AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATING. CONTRACTOR SHALL MODIFY DUCTWORK IN APPROVED MANNER TO FIT AVAILABLE FIELD CONDITIONS.
- 14. SEAL DUCTWORK & INSULATION WITH GLASS FABRIC AND MASTIC. NO EXCEPTIONS ALLOWED.
- 15. WEATHER PROTECTION OF EQUIPMENT AND MATERIALS SHALL BE THE HVAC CONTRACTOR'S RESPONSIBILITY.
- 16. COORDINATE ALL WORK UNDER THIS DIVISION WITH WORK UNDER OTHER DIVISIONS. PROVIDE ADJUSTMENTS AS NECESSARY FOR EQUIPMENT, APPARATUS, DUCTWORK, ETC., ALL ITEMS MOUNTED AT OR BELOW THE CEILING, AND ANY ITEM PENETRATING THE CEILING, SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- 17. PROTECTION OF WORK DURING CONSTRUCTION PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION. PROTECT EXPOSED COILS WITH PLYWOOD OR OTHER SUITABLE RIGID COVERS TO AVOID DAMAGE TO FINS. PROVIDE COVERS TO ELIMINATE DUST COLLECTION WITHIN DUCTWORK AND/OR EQUIPMENT. DO NOT OPERATE EQUIPMENT DURING CONSTRUCTION.
- 18. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR PROPER MAINTENANCE AND SERVICE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.
- 19. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR ALL DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- 20. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF FLOORS AND WALLS PERTAINING TO HIS WORK, UNLESS NOTED OTHERWISE.
- 21. ELECTRICAL CHARACTERISTICS SHOWN ON SCHEDULES ARE DESIGN VALUES ONLY AND SHALL BE VERIFIED AND COORDINATED PRIOR TO ORDERING EQUIPMENT.
- 22. ALL DUCTS TO BE RUN CONCEALED UNLESS NOTED OTHERWISE.
- 23. DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MECHANICAL LEGEND:

DIRECT DIGITAL CONTROL

EXHAUST FAN DESIGNATION

AIR HANDLING UNIT DESIGNATION

VAV BOX DESIGNATION

BACK FLOW PREVENTER PRESSURE REDUCING VALVE

DIFFUSER DESIGNATION (TYPE, CFM, NECK SIZE)

→ HWS → HOT WATER SUPPLY

→ HWR → HOT WATER RETURN

CWR → CHILLED WATER RETURN

CONDENSER WATER RETURN

CONDENSER WATER SUPPLY

GATE VALVE

BALANCING VALVE

PRESSURE GAUGE بالح

> THERMOMETER PLUG VALVE

UNION \vdash

STRAINER

CHECK VALVE \vdash

SENSOR (TEMP & HUMIDITY)

-N 1-DIFFUSER, DIRECTION OF FLOW AS INDICATED

SIDEWALL REGISTER/GRILLE

RETURN AIR OUTLET

EXHAUST OUTLET

≠20 x 8≠ DUCT SIZE, FIRST NO. IS SIDE SHOWN

ELBOW WITH TURNING VANE

MANUAL VOLUME DAMPER

3 WAY MIXING VALVE, ELECTRIC MODULATION VALVE

> 2 WAY MIXING VALVE, ELECTRIC MODULATION VALVE

N.O. NORMALLY OPEN

NORMALLY CLOSED

VARIABLE AIR VOLUME

OUTSIDE AIR

RETURN AIR

VARIABLE FREQUENCY DRIVE

UNLESS NOTED OTHERWISE BALANCING VALVE

DUCT SMOKE DETECTOR

NOTE:

GEOTHERMAL SYSTEM WITH WATER COOLED CHILLER, WATER TO WATER HEAT PUMPS, ASSOCIATED PUMPS, PIPING AND CONTROLS.

BID ITEM 002: MECHANICAL COOLING TOWER AND BOILER SYSTEM WITH WATER COOLED CHILLER, WATER TO WATER HEAT PUMPS, ASSOCIATED PUMPS. PIPING AND CONTROLS.

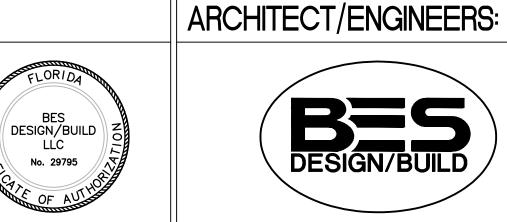
FINAL SUBMISSION

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SEASON

SUMMER

WINTER

BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716 Drawing Title MECHANICAL GENERAL NOTES + LEGEND

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PANAMA CITY JOINT OUTPATIENT CLINIC Approved: Project Director

VA GULF COAST HEALTH CARE PANAMA CITY, FLORIDA Checked

Project Title

16 APRIL 2012

520-326 **Building Number** Drawing Number

Office of Construction and Facilities Management

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0 4 8 16

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DESIGN CONDITIONS

OUTSIDE

95°F DB, 82°F WB

27°F

INSIDE

75°F DB, 45% RH

72°F

Dwg. 1

Department of Veterans Affairs